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SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)					Attorney Docket No.		06632/011001			
					Serial No.		09/040,518			
					Applicant		Costas N. Karatzas et al.			
					Filing Date		March 17, 1998			
					Group		1633			
(37 CFR §1.98(b))					IDS Filed		February 4, 2000			
			U.S. PATENTS							
Examiner's Initials	Patent Number	Issue Date	Patentee		Class	Subclass	Filing Date (If Appropriate)			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION										
Examiner's Initials	Document Number	Publication Date	Country or Patent Offic		Class	Subclass	Translation (Yes/No)			
amb	EP 0 771 874 A2	07.05.97	Europe							
amb	WO 97/08315	06.03.97	PCT							
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	OTHER DOCUME	NTS (INCLUDII	NG AUTHOR, TITLE, D	DATE, PLAC	E OF PUB	LICATION)	· · · · · · · · · · · · · · · · · · ·			
amb	Hayashi et al., "Evidence from Flagelliform Silk cDNA for the Structural Basis of Elasticity and Modular Nature of Spider Silks," Journal of Molecular Biology 275:773-784 (1998).									
amb	Kerr et al., "The Bladder as a Bioreactor: Urothelium Production and Secretion of Growth Hormone into Urine," Nature Biotechnology 16:75-79 (1998).									
amb	Meyer-Puttlitz et al., "Ectopic Expression of a Bacterial lacZ Gene in the Limbic System of Transgenic Mice," NeuroReport 6:1674-1678 (1995).									
amb	Lee et al., "Production of Biomedical Proteins in the Milk of Transgenic Dairy Cows: the State of the Art," Journal of Controlled Release 29:213-221 (1994).									
amp	Parkhe et al., "Structural Studies of Spider Silk Proteins in the Fiber," Journal of Molecular Recognition 10:1-6 (1997).									
amB	Prince et al., "Construction, Cloning, and Expression of Synthetic Genes Encoding Spider Dragline Silk," Biochemistry <b>34</b> :10879-10885 (1995).									
amB	Romagnolo et al., "Transgenic Approaches for Modifying the Mammary Gland to Produce Therapeutic Proteins," Environmental Health Perspectives 102:846-851 (1994).									
EXAMINER	anne-Marie Baken DATE CONSIDERED 4/7/00									
	Initial citation consider of this form with the			not in conf	ormance	and not co	nsidered.			

Revised: 27 January 1997

SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE Attorney Docket No. 06632/011001 (MODIFIED) PATENT AND TRADEMARK OFFICE 09/040,518 Serial No. INFORMATION DISCLOSURE Applicant Costas N. Karatzas et al. STATEMENT BY APPLICAN OCT 2 1 1998 (Use several sheets if necessary) Filing Date March 17, 1998 (37 CFR §1.98(b)) Group 1633 **LEADAMEN**TS Examiner's Patent Number Issue Date Patentee Class Subclass Filing Date Initials (If Appropriate) 5,227,301 7/13/93 Turner and Huynh (IMB 5,243,038 9/07/93 Ferrari et al., 5,304,489 4/19/94 J. M. Rosen () MB FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION Document Publication Country or Class Subclass Translation Patent Office (Yes/No) Number Date PCT WO91/08216 amb 6/13/91 WO93/25567 PCT 12/23/93 ame OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION) Guerette et al., "Silk Properties Determined by Gland-Specific Expression of a Spider Fibroin Gene Family," Science Umk 272: 112-115, 1996. Arcidiacono et al., "Purification and characterization of Recombinant Spider Expressed in Escherichia Coli," Appl. ame Microbiol. Biotechnol. 49: 31-38, 1998. Gosline et al., "The Macromolecular Design of Spiders' Silks," Biomimetics: Design and Processing of Materials, pp: amb 237-261, eds. Sarikaya and Aksay, Amer. Inst. of Physics, 1995. Xu and Lewis, "Structure of a Protein Superfiber: Spider Dragline silk," Proc. Natl. Acad. Sci. U.S.A. 87: 7120-7124, amb 1990. Beckwitt and Arcidiacono, "Sequence Conservation in the C-Terminal Region of Spider Silk Protein (Spidroin) from amb Nephila clavipes (Tetragnathidae) and Araneus bicentenarius (Araneidae)," J. Biol. Chem. 269: 6661-6663, 1994. Fahnestock and Irwin, "Synthetic Spider Dragline Silk Proteins and their Production in Escherichia coli," Appl. amb Microbiol. Biotechnol. 47: 23-32, 1997. Lee et al., "Tissue-Specific Expression of the rat β-Casein Gene in Transgenic Mice," Nucleic Acids Res. 16: 1027-1041, (Ime 1988. Vilotte et al., "Efficient Tissue-Specific Expression of Bovine α-Lactalbumin in Transgenic Mice," Eur. J. Biochem. 186: amb 43-48, 1989, Tsujimoto and Suzuki, "The DNA Sequence of Bombyx mori Fibroin Gene Including the 5' Flanking, mRNA Coding, amB Entire Intervening and Fibroin Protein Coding Regions," Cell 18: 591-600, 1979. Tsujimoto and Suzuki, "Structural Analysis of the Fibroin Gene at the 5' End and its Surrounding Regions," Cell 16: amb 425-436, 1979. Huynh et al., "Establishment of Bovine Mammary Epithelial Cells (MAC-T): An in Vitro Model for Bovine Lactation," Ump Exp. Cell. Res. 197: 191-199, 1991. DATE CONSIDERED **EXAMINER** anne-Marie Baker 4/7/00 EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

Sheet \_\_2\_\_ of \_\_2\_\_

SUBSTITUTE (MODIFIED)	FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No.		06632/011001					
OIPE					Serial No.		09/040,518				
	STATEMEN	ON DISCLOSU T BY APPLICA	Applicant		Costas N. Karatzas et al.						
STATEMENT BY APPLICANT OUT 2 1 1998 (Use several sheets if necessary)					Filing Date		March 17, 1998				
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DESCRIPTION TO SERVICE OF THE PROPERTY OF THE											
Examiner's Initials	Patent Number	Issue Date	Patentee		Class	Subclass	Filing Date (If Appropriate)				
amb	4,873,316	10/10/89	Meade and Lonberg								
amb	4,423,145	12/27/83	Stampfer et al.								
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION											
	Document Number	Publication Date	Country or Patent Office		Class	Subclass	Translation (Yes/No)				
amb	WO96/39494	12/12/96	PCT		_	1					
amb	WO88/01648	3/10/88	PCT		_						
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)											
lmB	Ichimura and Mita, "Essential Role of Duplications of Short Motif Sequences in the Genomic Evolution to <i>Bombyx mori</i> ," J. Mol. Evol. 35: 123-130, 1992.										
amb	Ebert et al., "Induction of Human Tissue Plasminogen Activator in the Mammary Gland of Transgenic Goats," Bio/Technology 12: 699-701, 1994.										
amb	Velander et al., "High-level Expression of a Heterologous Protein in the Milk of Transgenic Swine Using the cDNA Encoding Human Protein C," Proc. Natl. Acad. Sci. U.S.A. 89: 12003-12007, 1992.										
amB	Velander et al., "Production of Biologically Active Human Protein C in the Milk of Transgenic Mice," Ann. N. Y. Acad Sci. 665: 391-403, 1992.										
amb	Campbell et al., "Comparison of the Whey Acidic Protein Genes of the Rat and Mouse," Nucleic Acids Res. 12: 8685-8697, 1984.										
amz	Hennighausen et al., "Comprarative Sequence Analysis of the mRNAs Coding for Mouse and Rat Whey Protein," Nucl. Acids Res. 10: 3733-3744, 1982.										
amB	Lin et al., "A Tissue-Specific Promoter that Can Drive a Foreign Gene to Express in the Suprabasal Urothelial Cells of Transgenic Mice" Proc. Natl. Acad. Sci. U.S.A. 92:679-683, 1995.										
amb	Peschon et al., "Supermatid-Specific Expression of Protamine 1 in Transgenic Mice," Proc. Natl. Acad. Sci. U.S.A. 84: 5316-5319, 1987.										
amB	Groenen and Van der Poel, "Regulation of Expression of Milk Protein Genes: A Review," Livestock Production Science 38: 61-78, 1994.										
EXAMINER	anne-marie Baker DATE CONSIDERED 4/7/00										
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